

Request for Reconsideration

Applicant: Joseph G. Marcinkiewicz

Serial No.: 09/738,467

Filed: December 15, 2000

Docket No.: K315.106.101

Title: BRUSHLESS MACHINE CONTROL

magnetic field established by the rotating field windings on the rotor. Because they do not establish flux, for example, they do not meet the features of the independent claims as listed above.

Nygren further discloses auxiliary windings 30, which assist or modify the production of the rotating magnetic field established by the rotating field windings by a further rotating magnetic field induced by an ac current. Auxiliary windings 30 thus are flux-generating windings, but *not* phase windings. Because they are not phase windings, for example, they too do not meet the features of the independent claims as listed above.

Accordingly, contrary to the view stated in the Office Action, Nygren fails to teach or suggest a winding that is both a flux-establishing winding and a phase winding, as claimed.

Nygren - No Signal Indicative of or Representing Flux-Causing Voltage

Independent claim 1 recites means for producing a signal indicative of flux-causing voltage across the at least one phase winding. Independent claim 4 recites means for producing a feedback signal representing flux-causing voltage. Independent claim 23 recites producing a feedback signal including a part indicative of flux-causing voltage across the or each phase winding. Independent claim 24 recites a signal producer arranged for producing a signal indicative of flux-causing voltage across the at least one phase winding. Note, e.g., claim 1, lines 6-7, claim 4, lines 4-5, claim 23, lines 3-4, and claim 24, lines 6-7. Nygren fails to teach or suggest these features.

The Office Action cites column 15, lines 41-57 of Nygren as disclosing these features. To the contrary, however, these lines merely disclose the presence of the main winding (phase

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winding or armature winding 29) and auxiliary winding 30, and that auxiliary winding 30 is used as a flux control winding in accordance with what is disclosed in Nygren. There is absolutely no mention of a signal indicative of flux causing voltage across a phase winding, for example, or the other recited features, in the cited passage. Accordingly, Nygren fails to teach or suggest the features of the independent claims for this additional reason.

In view of the foregoing, Applicant submits that independent claims 1, 4 and 23-24 define patentable subject matter. The dependent claims recite additional features, not taught or suggested by the prior art. Applicant submits, therefore, that the dependent claims define patentable subject matter as well.

Lovett

The Office Action contends that independent claim 4 and the corresponding dependent claims are met by Nygren in view of Lovett. Nygren, however, does not disclose at least one phase winding arranged to establish flux in a magnetic circuit in an electrical machine, as recited in independent claim 4 and as discussed above. Nygren also does not disclose means for producing a signal representing flux-causing voltage, as recited in independent claim 4 and as discussed above. Lovett does not remedy Nygren's shortcomings in this regard. Accordingly, Applicant submits that independent claim 4, and its dependent claims, define patentable subject matter.